

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/56 H04L12/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 087 298 A (KONINKL PHILIPS ELECTRONICS NV) 28 March 2001 (2001-03-28) abstract page 2, column 2, paragraph 8 page 6, column 10, paragraph 40 - page 7, column 11, paragraph 44 page 11, column 20, paragraph 82 - paragraph 83 claim 1	1-5

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *P* document published prior to the international filing date but later than the priority date claimed

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

2 September 2004

Date of mailing of the international search report

08/09/2004

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1087298	A	28-03-2001	US 6715001 B1	30-03-2004
			WO 0120434 A2	22-03-2001
			WO 0120854 A1	22-03-2001
			WO 0120868 A1	22-03-2001
			WO 0120869 A1	22-03-2001
			EP 1085718 A2	21-03-2001
			EP 1085719 A2	21-03-2001
			EP 1085423 A2	21-03-2001
			EP 1087298 A1	28-03-2001
			EP 1087299 A1	28-03-2001
			EP 1085720 A2	21-03-2001
			EP 1085721 A2	21-03-2001
			EP 1085722 A2	21-03-2001
			EP 1129548 A1	05-09-2001
			EP 1129559 A1	05-09-2001
			EP 1145100 A2	17-10-2001
			EP 1129561 A1	05-09-2001
			JP 2003509764 T	11-03-2003
			JP 2003509961 T	11-03-2003
			JP 2003509968 T	11-03-2003
			JP 2003509787 T	11-03-2003
			US 6728892 B1	27-04-2004
			US 6631431 B1	07-10-2003
			US 6721799 B1	13-04-2004
			US 6434432 B1	13-08-2002
			US 6732255 B1	04-05-2004
			US 6647440 B1	11-11-2003
			US 6604156 B1	05-08-2003
			US 6615302 B1	02-09-2003
			US 6510479 B1	21-01-2003
			US 6493287 B1	10-12-2002
			US 6732254 B1	04-05-2004